

MARK-UP VERSION

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10581757
Filing Date	2007-03-02
First Named Inventor	YAMASAKI, SHINJI
Art Unit	1656
Examiner Name	Carlson
Attorney Docket Number	SHIM-018

**U.S. PATENTS**

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
/KCC/	1	5447848		1995-09-05	Barns et al.	US equivalent of JP 62-228096
/KCC/	2	5691138		1997-11-25	Guesdon et al.	US equivalent of JP 7-505535

If you wish to add additional U.S. Patent citation information please click the Add button.

**U.S. PATENT APPLICATION PUBLICATIONS**

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button.

**FOREIGN PATENT DOCUMENTS**

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
/KCC/	1	WO9842842	WO		1998-10-01	Johnson et al.	international application related to JP 2001-524825	<input type="checkbox"/>
/KCC/	2	EP0350205B1	EP		1995-02-08	Barns et al.	European equivalent to JP 2-84200	<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number		1058175
Filing Date		2007-03-02
First Named Inventor	YAMASAKI, SHINJI	
Art Unit		
Examiner Name		
Attorney Docket Number	SHIM-018	

/KCC/	3	JP62228096	JP		1987-10-06	Rashtchian A.	see U.S. Patent 5447848 above	<input checked="" type="checkbox"/>
	4	JP284200	JP		1990-03-26	Barns et al.	see EP0350205 above	<input checked="" type="checkbox"/>
	5	JP2154700	JP		<del>1990-03-26</del> 1990-06-14	Moureau et al.		<input checked="" type="checkbox"/>
	6	JP3112498	JP		1991-05-14	Ohashi et al.		<input checked="" type="checkbox"/>
	7	JP5276999	JP		1993-10-26	Matsuoka et al.		<input checked="" type="checkbox"/>
	8	JP690795	JP		1994-04-05	Hayashi et al.		<input checked="" type="checkbox"/>
	9	JP690796	JP		1994-04-05	Hayashi et al.		<input checked="" type="checkbox"/>
	10	JP7505535	JP		1995-06-22	Guesdon et al.	see U.S. Patent 5691138 above	<input checked="" type="checkbox"/>
	11	JP2000316590	JP		2000-11-21	McMillian et al.		<input checked="" type="checkbox"/>
/KCC/	12	JP2001524825	JP		2001-12-04	Johnson et al.	see WO9842842 above	<input checked="" type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

**NON-PATENT LITERATURE DOCUMENTS**

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	1058175
Filing Date	2007-03-02
First Named Inventor	YAMASAKI, SHINJI
Art Unit	
Examiner Name	
Attorney Docket Number	SHIM-018

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
/KCC/	1	Gene Bank accession no. U51121	<input type="checkbox"/>
	2	BLASER et al., "Campylobacter Enteritis: Clinical and Epidemiologic Features" Ann. Intern. Med. (Aug. 1979) 91 (2):179-85	<input type="checkbox"/>
	3	CORTES-BRATTI et al., "The Haemophilus ducreyi Cytolethal Distending Toxin Induces Cell Cycle Arrest and Apoptosis via the DNA Damage Checkpoint Pathways" J. Biol. Chem. (Feb. 16, 2001) 276(7):5296-302	<input type="checkbox"/>
	4	KOPECKO et al., "Campylobacter jejuni-microtubule-dependent invasion" Trends Microbiol. (Aug. 2001) 9(8):389-96	<input type="checkbox"/>
	5	KUDOH et al., Syouni naika. (1997) <del>28(9)</del> :1219-22 29(9)	<input checked="" type="checkbox"/>
	6	LARA-TEJERO et al., "A Bacterial Toxin That Controls Cell Cycle Progression as a Deoxyribonuclease I-Like Protein" Science (October 13, 2000) 290(5490):354-7	<input type="checkbox"/>
/KCC/	7	LARA-TEJERO et al., "Cytolethal distending toxin: limited damage as a strategy to modulate cellular functions" Trends Microbiol., (March 2002) 10(3):147-52	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

Examiner Signature	/Karen Cochrane Carlson/ (09/04/2008)	Date Considered	
--------------------	---------------------------------------	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10581757
Filing Date	2007-03-02
First Named Inventor	YAMASAKI, SHINJI
Art Unit	
Examiner Name	
Attorney Docket Number	SHIM-018

**U.S. PATENTS**

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Patent citation information please click the Add button.

**U.S. PATENT APPLICATION PUBLICATIONS**

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button.

**FOREIGN PATENT DOCUMENTS**

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup> ;	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1							<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	1058175
Filing Date	2007-03-02
First Named Inventor	YAMASAKI, SHINJI
Art Unit	
Examiner Name	
Attorney Docket Number	SHIM-018

/KCC/	1	MIZUNO et al., "Characteristics of cytotoxin produced by Campylobacter jejuni strains" Microbios. (1994) 78 (317):215-28	<input type="checkbox"/>
	2	OKUDA et al., "Examination of Diarrheagenicity of Cytolethal Distending Toxin: Suckling Mouse Response of the Products of the cdtABC Genes of Shigella dysenteriae" Infect Immun. (Feb. 1997) 65(2):2613-9 428-33	<input type="checkbox"/>
	3	OYOFO et al., "Specific Detection of Campylobacter jejuni and Campylobacter coli by Using Polymerase Chain Reaction" J Clin Microbiol. (Oct. 1992) 30(10):2613-9	<input type="checkbox"/>
	4	PICKETT et al., "The cytolethal distending toxin family" Trends Microbiol. (Jul. 1999) 7(7):292-7	<input type="checkbox"/>
	5	ROMANIUK et al., "Campylobacter pylori, the Spiral Bacterium Associated with Human Gastritis, Is Not a True Campylobacter sp." J Bacteriol. (May 1987) 169(5):2137-41	<input type="checkbox"/>
	6	SHANE et al., Diseases of Poultry, (2003) 615-30	<input type="checkbox"/>
	7	SUZUKI et al., "Immunological properties and ganglioside recognitions by Campylobacter jejuni-enterotoxin and cholera toxin" FEMS Immunol Med Microbiol. (Mar 1994) 8(3):207-11	<input type="checkbox"/>
	8	TAKAHASHI et al., Infectious Diseases Weekly Report Japan (2001) 3(6):10-2	<input type="checkbox"/>
↓ /KCC/	9	TOTTEN et al., "Prevalence and Characterization of Hippurate-Negative Campylobacter jejuni in King County, Washington" J Clin Microbiol. (Sep 1987) 25(9):1747-52	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

Examiner Signature	/Karen Cochrane Carlson/ (09/04/2008)	Date Considered	
--------------------	---------------------------------------	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** ( Not for submission under 37 CFR 1.99)

Application Number	10581757
Filing Date	2007-03-02
First Named Inventor	YAMASAKI, SHINJI
Art Unit	
Examiner Name	
Attorney Docket Number	SHIM-018

## **U.S.PATENTS**

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	5447848		1995-09-05	Barns et al.	US equivalent of JP 62-228096
	2	5691188		1997-11-25	Guesdon et al.	US equivalent of JP 7-505535

If you wish to add additional U.S. Patent citation information please click the Add button.

## **U.S.PATENT APPLICATION PUBLICATIONS**

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button.

## **FOREIGN PATENT DOCUMENTS**

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup> j	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1	WO9842842	WO		1998-10-01	Johnson et al.	international application related to JP 2004-524825	<input type="checkbox"/>
	2	EP0350205B1	EP		1995-02-08	Barns et al.	European equivalent to JP 2-84200	<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10581757
Filing Date	2007-03-02
First Named Inventor	YAMASAKI, SHINJI
Art Unit	
Examiner Name	
Attorney Docket Number	SHIM-018

3	JP62228096	JP		1987-10-06	Rashtchian A.	see U.S. Patent 5447848 above	<input checked="" type="checkbox"/>
4	JP284200	JP		1990-03-26	Barns et al.	see EP0350205 above	<input checked="" type="checkbox"/>
5	JP2154700	JP		1990-06-14	Moureau et al.		<input checked="" type="checkbox"/>
6	JP3112498	JP		1991-05-14	Ohashi et al.		<input checked="" type="checkbox"/>
7	JP5276999	JP		1993-10-26	Matsuoka et al.		<input checked="" type="checkbox"/>
8	JP690795	JP		1994-04-05	Hayashi et al.		<input checked="" type="checkbox"/>
9	JP690796	JP		1994-04-05	Hayashi et al.		<input checked="" type="checkbox"/>
10	JP7505535	JP		1995-06-22	Guesdon et al.	see U.S. Patent 5691138 above	<input checked="" type="checkbox"/>
11	JP2000316590	JP		2000-11-21	McMillian et al.		<input checked="" type="checkbox"/>
12	JP2001524825	JP		2001-12-04	Johnson et al.	see WO9842842 above	<input checked="" type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

**NON-PATENT LITERATURE DOCUMENTS**

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10581757
Filing Date	2007-03-02
First Named Inventor	YAMASAKI, SHINJI
Art Unit	
Examiner Name	
Attorney Docket Number	SHIM-018

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1	Gene Bank accession no. U51121	<input type="checkbox"/>
	2	BLASER et al., "Campylobacter Enteritis: Clinical and Epidemiologic Features" Ann. Intern. Med. (Aug. 1979) 91 (2):179-85	<input type="checkbox"/>
	3	CORTES-BRATTI et al., "The Haemophilus ducreyi Cytolethal Distending Toxin Induces Cell Cycle Arrest and Apoptosis via the DNA Damage Checkpoint Pathways" J. Biol. Chem. (Feb. 16, 2001) 276(7):5296-302	<input type="checkbox"/>
	4	KOPECKO et al., "Campylobacter jejuni-microtubule-dependent invasion" Trends Microbiol. (Aug. 2001) 9(8):389-96	<input type="checkbox"/>
	5	KUDOH et al., Syouni naika. (1997) 29(9):1219-22	<input checked="" type="checkbox"/>
	6	LARA-TEJERO et al., "A Bacterial Toxin That Controls Cell Cycle Progression as a Deoxyribonuclease I-Like Protein" Science (October 13, 2000) 290(5490):354-7	<input type="checkbox"/>
	7	LARA-TEJERO et al., "Cytolethal distending toxin: limited damage as a strategy to modulate cellular functions" Trends Microbiol., (March 2002) 10(3):147-52	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

Examiner Signature	/Karen Cochrane Carlson/ (09/04/2008)	Date Considered	
--------------------	---------------------------------------	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** ( Not for submission under 37 CFR 1.99)

Application Number 10581757

Filing Date 2007-03-02

First Named Inventor YAMASAKI, SHINJI

Art Unit

Examiner Name

Attorney Docket Number SHIM-018

## **U.S. PATENTS**

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Patent citation information please click the Add button.

## **U.S. PATENT APPLICATION PUBLICATIONS**

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button.

## **FOREIGN PATENT DOCUMENTS**

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup> j	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1							<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

## **NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10581757
Filing Date	2007-03-02
First Named Inventor	YAMASAKI, SHINJI
Art Unit	
Examiner Name	
Attorney Docket Number	SHIM-018

1	MIZUNO et al., "Characteristics of cytotoxin produced by Campylobacter jejuni strains" Microbios. (1994) 78 (317):215-28	<input type="checkbox"/>
2	OKUDA et al., "Examination of Diarrheagenicity of Cytolethal Distending Toxin: Suckling Mouse Response of the Products of the cdtABC Genes of Shigella dysenteriae" Infect Immun. (Feb. 1997) 65(2):428-33	<input type="checkbox"/>
3	OYOFO et al., "Specific Detection of Campylobacter jejuni and Campylobacter coli by Using Polymerase Chain Reaction" J Clin Microbiol. (Oct. 1992) 30(10):2613-9	<input type="checkbox"/>
4	PICKETT et al., "The cytolethal distending toxin family" Trends Microbiol. (Jul. 1999) 7(7):292-7	<input type="checkbox"/>
5	ROMANIUK et al., "Campylobacter pylori, the Spiral Bacterium Associated with Human Gastritis, Is Not a True Campylobacter sp." J Bacteriol. (May 1987) 169(5):2137-41	<input type="checkbox"/>
6	SHANE et al., Diseases of Poultry, (2003) 615-30	<input type="checkbox"/>
7	SUZUKI et al., "Immunological properties and ganglioside recognitions by Campylobacter jejuni-enterotoxin and cholera toxin" FEMS Immunol Med Microbiol. (Mar 1994) 8(3):207-11	<input type="checkbox"/>
8	TAKAHASHI et al., Infectious Diseases Weekly Report Japan (2001) 3(6):10-2	<input type="checkbox"/>
9	TOTTEN et al., "Prevalence and Characterization of Hippurate-Negative Campylobacter jejuni in King County, Washington" J Clin Microbiol. (Sep 1987) 25(9):1747-52	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

Examiner Signature	/Karen Cochrane Carlson/ (09/04/2008)	Date Considered	
--------------------	---------------------------------------	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.